25X1A 25X1A

25X1A

completed.

Approved For Release 2003/05/28 : CIA-RDP79B01709A090200050931-Zolo @

6 November 1970

MEMORAND	UM FOR:	25X1A
SUBJECT	: Notes on the Meeting of the Steering Committee Meeting of 3 November 1970	25X1A
been postpone	The briefing that was to be given on the coverage of snow fields in the United States has ed for presentation in December 1970.	25X1A
	was asked to introduce the briefing	
photography f SO-242 color was used for mentioned the /Report No. 8 Film, ICL-TO the contractor	rom Mission 1108-2. There was about 819 feet of film used in the aft-looking camera. SO-360 film duping. The ground resolution report that had been issued by the contractor S, KH-4B System Capability, Evaluation of SO-242 CS-0001-70/ and which included some of the work of did for three areas in the Tsaidam Basin of China. as excellent examples of the photography./	25X1D 25X1D
3.	Bill explained that before he had received his	
were low, pro	He thought that the synoptic view this color photography, even though the resolutions vided an understanding of structural geology that ibly be matched in a conventional way.	
	Copy <u>2</u>	25X1
NDO Addressed	For Release 2003/05/28 : CIA-RHP79B01709A000200050031-2	25X1

- He then directed his briefing first to the Tsaidam Basin and later to some new investigations which were completed last Saturday for an area in southern USSR and adjoining Afghanistan. He explained that with regard to the Tsaidam Basin study it was necessary to improve collateral map and other information obtained from a variety of sources by utilizing planimetric data obtained from the metric camera KH-4B of Mission 1108-2. Once having a relatively accurate planimetric base for the three areas in the Basin, he studied the photography for the three areas from the SO-242 color film in the aft-looking camera and the 3404 B & W in the forwardlooking camera. He explained that each of the areas studied was approximately 21/2 degrees in longitude and 1 1/2 degrees in latitude, each covering about 12,000 square miles. With the collateral ground truth information available, he was able to distinguish the various rock types in these areas such as alluvial, sedimentary, metamorphic, and igneous intrusions, as well as the approximate ages of the structures involved.
- 5. He and one other man in his organization had the tickets that permitted their use of the information. What they did in the studies of these three areas of the Basin took between two and three man-months. By conventional mapping and analysis of an alogous area in the United States it would have taken approximately one man-month per 1,000 square miles. His final product was a geologic map of structures with emphasis on the location of potential petroleum and gas resources. Some are known to be tapped at the present time. He also stated that he could suggest the location of certain metallic minerals of value which should occur along identified faults and along contacts between surrounding rock structures and igneous intrusions.
- 6. He then proceeded to explain some work that he and his company had recently done with the use of the same KH-4B photography of Southern USSR and adjoining Afghanistan. Color photography proved to be essential in this area. Some ground truth was available partly because of the fact that ARPA had had a survey undertaken under contract for an adjoining area. He again chose four specific areas for study. In each of these there had been heavy folding and reverse faulting of sedimentary structures might have created traps for potential oil and gas. Two

25X1

sedimentary structures, dipping northwestward, showed up clearly on all color photography, namely the Bukhara limestone and the so-called Bot'dzhuan formation. Having determined the dominant color and nature of these two outcroppings, it was possible to extrapolate the associated rock structures. In his study he may in fact suggest the potential areas for petroleum, gas, and coal and for non-metallic deposits such as sand, gravel, locss, lime, tale, gypsum, etc.

25X1A

7.	was greatly impressed by the				
usefulness c	f KH-4B color photography and felt strongly that				
it was a sha	me to keep it in a covert system. Some of the				
advantages v	vere the synoptic view provided by the photography,				
the stereosc	opic capability, the availability to non-accessible				
areas, the r	elatively high resolution, and the availability of color.				
He consider	s this material as a breakthrough in reconnaissance				
techniques for geologic mapping and exploration, as well as in					
access to ot	nerwise inaccessible areas. He is completely				

Fred Doyle of USGS asked if this approach to petroleum and gas exploration would be useful in the United States. Bill answered that it would, and at the same time would give his company a competitive advantage if other companies were not provided with the same type of imagery. He assured all of us that he would not take commercial advantage of having his clearances.

has an index to the Red Dot photography that has been taken over the United States with the use of the Delta III camera using the U-2 as a platform. This Red Dot photography is in many ways similar to the stereo (color and B & W) photography of KH-4B.

The Red Dot experimental work is run by Eastman Kodak and closely

3 25X1 25X1

25X1B

25X1A

TOP SECRET

Approved For Release 2003/05/28 : CIA-RDP79B01709A000200050031-2

25X1A	monitored by the NRO Color Task Force. are intimately involved and this experimentation	25X1A
	has been going on for an extended period. Ithought that it might be possible to arrange to meet some civilian requirements by obtained access for them to the photography and by giving consideration to their needs in future Red Dot experimental work. No commitment was made. In answer to Fred Doyle, it was pointed out that the characteristics of the camera are probably classified SECRET, particularly when related to high-altitude aircraft. The Red Dot photography itself is classified T-KII, but could possibly be sanitized and used on a unclassified basis as has previous U-2 photography covering the United States. No definitive answer was given to the question.	25X1A
25X1A	9. then gave a very useful rundown on some of the work of NRO Color Task Force and the CIA Color Working Group. He discussed the SO-242 film, the SO-380/3404 B & W film, the SO-360 reversible color duping film, and several other types of film including inter-negative film. There have been coordinated tests of color film from satellite photography as well as U-2 photography conducted by the Task Force from	
		25X1B
	In short he gave what is probably an abbreviated version of his usual briefing. It seemed to be extremely well received by the members of the committee.	
		25X1A
1.		

25X1

25X1

4